

A CODE-ALARM, INC. ("CODE") vehicle system sold to a retail consumer purchaser by an authorized dealer of CODE and installed by an authorized dealer of CODE is warranted by CODE to the original retail consumer purchaser to be free from defects in workmanship and materials for three (3) years from when the system was originally installed.

A CODE vehicle system sold to a retail consumer purchaser by an authorized dealer of CODE and installed by a party other than an authorized dealer of CODE is warranted by CODE to the original retail consumer purchaser to be free from defects in workmanship and materials for a period of ninety (90) days. Defects caused by or related to the improper installation of the system are not covered by this or any other warranty.

The duration of this warranty described above applies to all components of the system except for: switches, indicator lights, transmitter(s) and accessories purchased separately.

Transmitters, exclusive of the transmitter case, are warranted by CODE to the original retail consumer purchaser to be free from defects in workmanship and materials for three (3) years from when the system was originally installed.

Switches, indicator lights, and transmitter cases are warranted to the original consumer purchaser for a period of one (1) year from the date of purchase when the system is installed by an authorized CODE dealer.

Switches, indicator lights, and transmitter cases are warranted to the original consumer purchaser for a period of ninety (90) days from the date of purchase when the system is installed by a party other than an authorized CODE dealer.

System accessories are covered by the warranty supplied with the accessory. Wiring harnesses altered by installation and transmitter batteries are not covered by this or any other warranty.

This warranty is non-transferable, non-assignable and is completely voided when the system is removed from the car in which it was originally installed. If the vehicle in which the system was originally installed is transferred to another party, this warranty no longer applies.

This warranty does not apply to any product damaged by accident, physical or electrical abuse, improper installation, alteration, any use contrary to its intended function, unauthorized service (i.e. service by anyone other than CODE or its authorized service personnel), fire, flood, lightning or other acts of God.

Should a product be found to be defective during the warranty duration, CODE will repair or replace the product or any part of the product that CODE agrees is defective without charge to the retail consumer purchaser of the product during the first year of the warranty period. After the first year of the warranty period has expired CODE will repair or replace the product or any part of the product that CODE agrees is defective for a fee of \$10.00 to cover shipping and handling charges.

In order for a product to be repaired or replaced under the terms of this warranty, the defective product must be returned to an authorized CODE dealer and accompanied by a copy of the original retail sales receipt. The date of purchase and year, make and model of the vehicle in which the system was originally installed must be clearly indicated on the sales receipt.

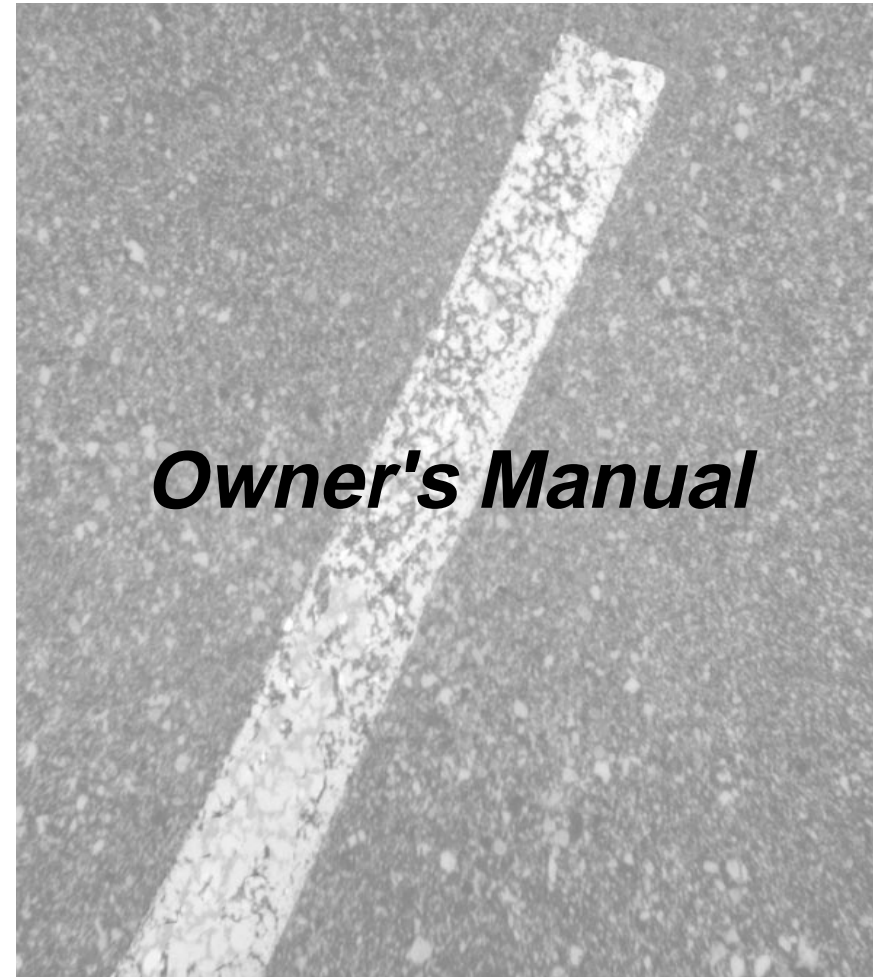
CODE shall not be held responsible for any removal and/or reinstallation charges of a defective product, damage to or theft of the vehicle or its contents, or any incidental or consequential damages caused by any failure of the product to function properly. Under no circumstances should this warranty, or product covered by it, be construed as an insurance policy against loss. CODE neither assumes nor authorizes any person or organization to make ANY WARRANTIES or assume any liability in connection with the sale, installation, or use of this product. This is the complete CODE warranty and no other warranty exists.

The warranty identified in this form is exclusive and CODE makes no other warranties expressed or implied for any goods or services provided by CODE. CODE specifically and expressly excludes any other warranties including the fitness for a particular purpose and all warranties of merchantability. The customer's sole and exclusive remedy for any and all claims against CODE arising out of the customer's use of any CODE vehicle system or component shall be as delineated in the warranty set forth above. CODE shall not be liable to any customer or any other person or entity for any direct or indirect, consequential, special or exemplary damages arising out of or in connection with the customer's use of, or inability to use, or misuse of any CODE provided product.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

F40/F45

Remote Vehicle Control System



Add-On Car Start System

IMPORTANT NOTE: The operation of the F40/F45 as described in this manual is applicable to most vehicles. However, due to the engine type and configuration of some vehicles (i.e. diesel engines), some functions AND/OR SAFETY PRECAUTIONS may not apply. Please see your installing dealer for more information.

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Programming the Tach Signal

Note: Skip this step if the vehicle does not have a tach wire or if this unit will be programmed to operate without connection to the tach wire.

1. Open the vehicle hood (hood pin switch must be installed to program tach).
2. Following the steps in Section C (Programming Selectable Options), access Option Bank 2 / Feature 4.
3. Start the vehicle with the key, and allow the engine to come to a normal idle (5-10 seconds).
 The unit will flash the parking lights every three (3) seconds to indicate that it has learned the current idle speed.

Programmable Options Chart

Default settings in **BOLD**

OPTION	DESCRIPTION	STATUS INDICATOR
Option Bank 1 - 4 Chirps (Car Start Options)		
1. Tach Mode	(1) Use blind crank timing (2) Use tach input	ON(1) OFF (2)
2. Blind Crank Time	(1) Avg of last 8 manual starts (2) 1.5 sec.	ON (1) OFF(2)
3. Run Time	(1) 25 minutes (2) 12 minutes	ON(1) OFF (2)
4. Diesel Mode	Start crank begins (1) 15 sec. or	ON (1) OFF (2)
5. PositiveStartTrigger	(1)SinglePulseStart(2)DoublePulseStart	ON(1) OFF (2)
Option Bank Two - 5 Chirps (Installer Options)*		
1. LockSenseSwitch	(1)Positive(2)Negative	ON(1) OFF (2)
2. NeutralSafetyInput	(1)Positive(2)Negative	ON(1) OFF (2)
3. TachProgramming**	Hoodopen, Starttolearn	ON OFF

Brake is used instead of door to enter learn mode.

FCC COMPLIANCE

This device complies with Part 15 of the FCC rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including any interference that may cause undesired operation.

Warning!

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

* The Installer options will never reset.

** For Tach Averaging, both Starter Key and Starter Motor wires must be hooked up.

Programming Options

1. Press brake pedal.
2. Turn vehicle ignition on.
3. Press and hold emergency override button. After 10 seconds, the parking lights will flash. This indicates that the unit has entered the default programming mode. (Activate the double pulse Start Trigger to default the options).
4. Release both the brake pedal and button.
5. Press and release the emergency override button.
*The horn or siren will sound four (4) times. This indicates that the unit has entered the **Car Start Options Programming** mode.*
6. Pulse the (+) Start Tigger to advance to the next feature.
The parking lights will flash a number of times to indicate the number of the option.
7. Press the brake petal to turn the option on or off. If installed, the vehicle status indicator will indicate whether an option is on or off.
 - **If the selected option is ON, the indicator will light.**
 - **If the selected option is OFF, the indicator will turn off.**
 - **The status indicator will turn on or off when an option is changed.**
8. Turn ignition off to exit programming.

See Options Chart on page 7.

Starting Your Vehicle

The remote start function is activated by pressing a button on your existing remote control (please see your installer for Remote Start Sequence). The system will check the vehicle to ensure that it is safe to start, and if all safety parameters are correct, the engine will start within 5 seconds (diesel engines will take longer.) Repeat the START sequence again to turn off the vehicle.

If your vehicle stalls or does not start...

If the vehicle stalls or does not start, the F40/F45 will pause 5 seconds, then try 3 more times to start the vehicle (a total of four attempts). The system pauses 5 seconds between each start attempt. If the vehicle does not start after the fourth attempt, the F40/F45 will abort the start process.

Your vehicle can be started by remote control whether the vehicle is locked or unlocked.

Remote Start Safety Features

For safety and security reasons, the F40/F45 will shut off the vehicle during remote start if any of the following occur:

- The vehicle hood is opened
- The brake is pressed before the vehicle ignition is turned on with the key
- The engine reaches 3 times its normal idle*

As a safety precaution, the vehicle will shut off if left unattended for up to 12 or 25 minutes, depending on the time preset by your installer.

Entering the Vehicle While it is Running via Remote Start

1. Press UNLOCK to unlock the door(s) (if not already unlocked).
2. Enter the vehicle. Do not press the brake pedal.
3. Insert the key into the ignition and turn to the ON position.
4. Press the brake pedal. The remote starter disengages and the vehicle will operate normally.

Pre-Heating or Pre-Cooling the Interior of the Vehicle

Before exiting the vehicle, set the temperature controls to the desired setting and operation. After the F40/F45 starts the vehicle, the heater or air-conditioning will activate and heat or cool the interior to your setting.

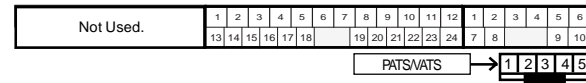
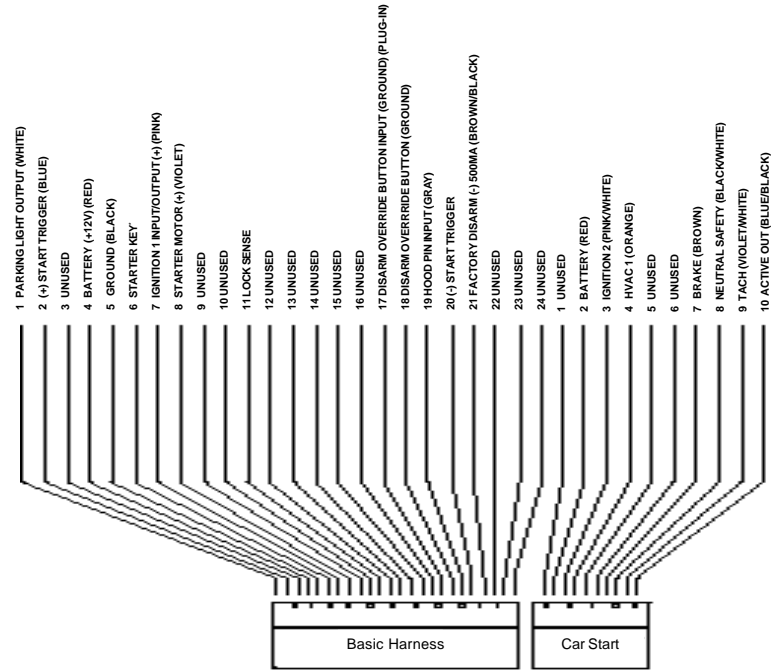
* The tach wire must be connected and the system must be in tach monitor mode.

Basic Troubleshooting

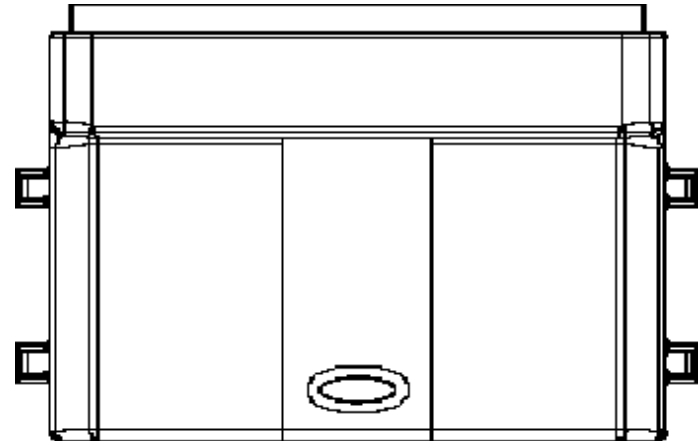
This section outlines some of the basic issues you may experience while becoming used to the F40/F45. If you have a problem that is not covered by this section, please consult your installer.

Symptom	Problem	Solution
System will not remote start	Hood is open	Close hood
	Brake is pressed	Release brake

IMPORTANT!!!
The module MUST be programmed before it will operate.
Refer to the programming instructions on pages 6-7.



Wire End View



* Used for Blind Crank Mode.